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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 13

## Complete if Known

Application Number Unassigned  
Filing Date Herewith  
First Named Inventor Lockhart, David J.  
Group Art Unit 1656  
Examiner Name S. Houttoman - Riley  
Attorney Docket Number 018547019420

JP29 U.S. PTO  
09/800727

06/13/01

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	1	6,110,426		Shalon et al.	08/29/2000	
	2	6,054,270		Southern	04/25/2000	
	3	6,040,138		Lockhart et al.	03/21/2000	
	4	6,025,136		Dmanac et al.	02/15/2000	
	5	6,018,041		Dmanac et al.	01/25/2000	
	6	5,972,619		Dmanac et al.	10/26/1999	
	7	5,830,645		Pinkel et al.	11/03/1998	
	8	5,807,522		Brown et al.	09/15/1998	
	9	5,800,992		Fodor et al.	09/01/1998	
ML	10	5,795,714		Cantor et al.	08/18/1998	
	11	5,744,305		Fodor	04/28/1998	
	12	5,700,637		Southern	12/23/1997	
	13	5,605,662		Heller et al.	02/25/1997	
	14	5,576,832		Trulson et al.	11/26/1996	
ML	15	5,571,639		Hubbell et al.	11/05/1996	
	16	5,563,060		Hozier	10/08/1996	
	17	5,556,748		Douglas	09/17/1996	
	18	5,556,752		Lockhart et al.	09/17/1996	
	19	5,545,331		Rava et al.	08/13/1996	
ML	20	5,543,292		Imai et al.	08/06/1996	
	21	5,518,883		Soini	05/21/1996	
	22	5,516,641		Ullman et al.	05/14/1996	
	23	5,514,543		Grossman et al.	05/07/1996	
	24	5,514,785		Van Ness et al.	05/07/1996	
	25	5,512,430		Gong	04/30/1996	
	26	5,510,270		Fodor et al.	04/23/1996	
	27	5,489,507		Chehab	02/06/1996	
	28	5,489,678		Fodor et al.	02/06/1996	
	29	5,486,452		Gordon et al.	01/23/1996	
	30	5,474,796		Brennan	12/12/1995	
	31	5,474,895		Ishii et al.	12/12/1995	
	32	5,472,842		Stokke et al.	12/05/1995	
	33	5,447,841		Gray et al.	09/05/1995	
ML	34	5,445,934		Fodor et al.	08/29/1995	
	35	5,436,327		Southern et al.	07/25/1995	
	36	5,434,049		Okano et al.	07/18/1995	
ML	37	5,422,241		Goldrick et al.	06/06/1995	
	38	5,412,087		McGall et al.	05/02/1995	

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*[Signature]*

Date  
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9/25/02

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				Application Number	Unassigned
				Filing Date	Herewith
				First Named Inventor	Lockhart, David J.
				Group Art Unit	1656
				Examiner Name	S. Houtteman <i>Riley</i>
				Attorney Docket Number	018547019420
Sheet	2	of	13		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	39	5,389,512		Sninsky et al.	02/14/1995	
	40	5,348,855		Dattagupta et al	09/20/1994	
	41	5,338,688		Deeg et al.	08/16/1994	
	42	5,328,824		Ward et al.	07/12/1994	
	43	5,324,633		Fodor et al.	06/28/1994	
	44	5,310,893		Erich et al	05/10/1994	
	45	5,256,549		Urdea	10/26/1993	
	46	5,252,296		Zuckerman et al.	10/12/1993	
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	48	5,242,974		Holmes	09/07/1993	
	49	*5,232,829		Longiaru et al	08/03/1993	
	50	5,215,882		Bahl et al.	06/01/1993	
	51	5,204,268		Matsumoto	04/20/1993	
	52	5,202,231		Drmanac et al.	04/13/1993	
	53	5,200,051		Cozzette	04/06/1993	
	54	5,200,312		Oprandy	04/06/1993	
	55	5,188,963		Stapleton	02/23/1993	
	56	5,185,243		Ullman et al.	02/09/1993	
	57	5,173,260		Zander et al.	12/22/1992	
	58	5,153,319		Caruthers et al	10/06/1992	
	59	5,143,854		Pirrung et al.	09/01/1992	
	60	5,141,813		Nelson	08/25/1992	
	61	5,100,777		Chang	3/31/1992	
	62	5,091,652		Mathies et al.	02/25/1992	
	63	5,082,830		Brakel et al	01/21/1992	
	64	5,064,754		Mills	11/12/1991	
	65	5,047,524		Andrus et al.	09/10/1991	
	66	5,043,265		Tanke et al	08/27/1991	
	67	5,028,525		Gray et al.	07/02/1991	
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	71	5,013,669		Peters Jr., et al	05/07/1991	
	72	5,002,867		Macevicz	03/26/1991	

Examiner Signature	<i>[Signature]</i>	Date Considered	9/25/02
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				First Named Inventor	Lockhart, David J.
				Group Art Unit	1656
				Examiner Name	<del>S. Houtteman</del> <i>Riley</i>
				Attorney Docket Number	018547019420
Sheet	3	of	13		

U.S. PATENT DOCUMENTS						
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		Number	Kind Code <sup>2</sup> (if known)			
	73	4,994,373		Stavrianopoulos et al	02/19/1991	
	74	4,992,383		Farnsworth	02/12/1991	
	75	4,988,617		Landegren et al	01/29/1991	
	76	4,987,065		Stavrianopoulos et al	01/22/1991	
	77	4,981,783		Augenlicht	01/01/1991	
	78	4,925,785		Wang et al	05/15/1990	
	79	4,923,901		Koester et al	05/08/1990	
	80	4,921,805		Gebeyehu et al.	05/01/1990	
	81	4,874,500		Madou et al	10/17/1989	
	82	4,868,103		Stavrianopoulos et al	09/19/1989	
	83	4,868,104		Kum et al.	09/19/1989	
	84	4,868,105		Urdea et al.	09/19/1989	
	85	4,855,225		Fung et al	08/08/1989	
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	87	4,833,092		Geysen	05/23/1989	
	88	4,820,630		Taub	04/11/1989	
	89	4,812,512		Buendia et al	03/14/1989	
	90	4,780,504		Buendia et al	10/25/1988	
	91	4,767,700		Wallace	08/30/1988	
	92	4,755,458		Rabbani et al	07/05/1988	
	93	4,731,325		Palva et al	03/15/1988	
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	95	4,716,106		Chiswell	12/29/1987	
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	98	4,689,405		Frank	08/25/1987	
	99	4,683,195		Mullis et al.	07/28/1987	
	100	4,683,202		Mullis	07/28/1987	
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	103	4,613,566		Potter	09/23/1986	
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	105	4,584,277		Ullman et al	04/22/1986	
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Examiner Signature	<i>See Ali</i>	Date Considered	<i>9/25/02</i>
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Sheet 4 of 13

## Complete if Known

Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman Riley
Attorney Docket Number	018547019420

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		Number	Kind Code <sup>2</sup> (if known)			
	107	4,562,157		Lowe et al	12/31/1985	
	108	4,556,643		Paau et al.	12/03/1985	
	109	4,542,102		Dattagupta et al	09/17/1985	
	110	4,500,707		Caruthers et al	02/19/1985	
	111	4,486,539		Ranki et al.	12/4/1984	
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	113	4,458,066		Caruthers et al	07/03/1984	
	114	4,373,071		Itakura	02/08/1983	
	115	4,327,073		Huang	04/27/1982	
	116	4,071,315		Chateau	01/31/1978	
	117	3,738,844		Gilham et al.	05/01/1973	

## FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
Me	118	EP	721 016	A2		07/10/1996		<input type="checkbox"/>
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Me	133	EP	171 150			02/12/1986		
Me	134	EP	0 159 719			10/30/1985		
Me	135	EP	0 132 621			06/28/1984		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
<i>JA</i>	136	EP	063 810			11/03/1982		
<i>JA</i>	137	WO	98/31836			07/23/1998		
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	<del>140</del>	<del>WO</del>	<del>95/20774</del>			<del>11/10/1995</del>		
<i>JA</i>	141	WO	95/25116			09/21/1995		
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<i>JA</i>	150	WO	93/22680			11/11/1993		
<i>JA</i>	151	WO	93/17126			09/02/1993		
<i>JA</i>	152	WO	93/11262			06/10/1993		
<i>JA</i>	153	WO	92/10588			06/25/1992		
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<i>JA</i>	156	WO	90/04652			05/03/1990		
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	<del>161</del>	<del>WO</del>	<del>89/10977</del>			<del>22/16/1989</del>	<i>Duplicate.</i>	
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	<del>164</del>	<del>WO</del>	<del>83-223557</del>			<del>09/19/1983</del>		
<i>JA</i>	165	GB	2156074	Abstract		10/02/1985		
<i>JA</i>	166	DE	3505287	Abstract		09/05/1985		
<i>JA</i>	167	FR	2559783	Abstract		02/15/1985		

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		Attorney Docket Number	018547019420		
Sheet	6	of	13		

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	168	AUGENLICHT, et al., "Cloning and Screening of Sequences Expressed in a Mouse Colon Tumor," <i>Cancer Research</i> , 42, 1088-1093.	<input type="checkbox"/>	
	169	AUGENLICHT et al., "Expression of Cloned Sequences in Biopsies of Human Colonic Tissue and in Colonic Carcinoma Cells Induced to Differentiate in Vitro," <i>Cancer Research</i> , 47, 6017-6021 (1987)	<input type="checkbox"/>	
	170	BAINS AND SMITH, A Novel Method for Nucleic Acid Sequence Determination. <i>Theor. Biol.</i> 135: 303-307 (1988)	<input type="checkbox"/>	
	171	BARTSH et al., "Cloning of mRNA sequences from the human colon: Preliminary characterization of defined mRNAs in normal neoplastic tissues," <i>Br. J. Cancer</i> , 54:791-798 (1986)	<input type="checkbox"/>	
	172	BILLINGS et al., "New Techniques for Physical Mapping of the Human Genome," <i>FASEB</i> , 5:28-34 (1991)	<input type="checkbox"/>	
	173	BOYLE et al, Differential distribution of long and short interspersed element sequences in the mouse genome: Chromosome karyotyping by fluorescence in situ hybridization, <i>J. Proc. Natl. Acad. Sci. USA</i> 87:7757-7761 (1990)	<input type="checkbox"/>	
	174	BROCK, et al., "Rapid fluorescence detection of in situ hybridization with biotinylated bovine herpesvirus-1 DNA probes," <i>Journal of Veterinary Diagnostic Investigation</i> , 1:34-38 (1989)	<input type="checkbox"/>	
	175	BROUDE, NATALIA E., et al., "Enhanced DNA Sequencing By Hybridization," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 3072-3076, April 1994.		
	176	CARRANO et al, A High-Resolution, Fluorescence-Based, Semiautomated Method for DNA Fingerprinting, <i>Genomics</i> 4, 129-136 (1989)	<input type="checkbox"/>	
	177	CARUTHERS, Gene Synthesis Machines: DNA Chemistry and Its Uses, <i>Science</i> 230: 281 (1985)	<input type="checkbox"/>	
	178	CHEE et al., "Accessing Genetic Information with High-Density DNA Arrays," <i>Science</i> , 274:610-614 (1996)	<input type="checkbox"/>	
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	180	CHEHAB et al., "Detection of specific DNA sequences by fluorescence amplification: A color complementation assay," <i>Proceedings of the National Academy of Sciences</i> , 86:9178-9182 (1989)	<input type="checkbox"/>	
	181	CHEHAB et al, Detection of sickle cell anemia mutation by colour DNA Amplification, <i>The Lancet</i> 335:15-17 (1990)	<input type="checkbox"/>	
	182	CRAIG et al, Ordering of Cosmid Clones Covering the Herpes Simplex Virus Type I (HSV-I) Genome, <i>Nuc. Acids. Res.</i> 18:2653-2660 (1990)	<input type="checkbox"/>	
	183	DRMANAC et al., "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 260:1649-1652 (1993)	<input type="checkbox"/>	

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Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman <i>Riley</i>
Attorney Docket Number	018547019420

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	184	DRMANAC et al., "Sequencing by Hybridization: Towards an Automated Sequencing of One Million M13 Clones Arrayed on Membranes," <i>Electrophoresis</i> , 13:566-573 (1992)	<input type="checkbox"/>
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Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houttoman <i>file</i>
Attorney Docket Number	018547019420

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Filing Date	Herewith
First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman <i>Reley</i>
Attorney Docket Number	018547019420

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	218	KOHARA et al, The Physical Map of the Whole E. coli Chromosome: Application of a New Strategy for Rapid Analysis and Sorting of a large Genomic Library, <i>Cell</i> 50: 495-508 (1987)	
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Application Number	Unassigned
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First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman
Attorney Docket Number	018547019420

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	235	LOKEN, et al., "Three-Color Immunofluorescence Analysis of Leu Antigens on Human Peripheral Blood Using Two Lasers on a Fluorescence-Activated Cell Sorter," <i>Cytometry</i> , 5:151-158 (1984)	
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	239	LYSOV et al., "A New Method For Determining the DNA Nucleotide Sequence by Hybridization with Oligonucleotides," <i>Doklady Biochemistry</i> , 303:436-438 (1989)	
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First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman
Attorney Docket Number	018547019420

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 12 of 13

**Complete if Known**

Application Number	Unassigned
Filing Date	Herewith
First Named Inventor	Lockhart, David J.
Group Art Unit	1656
Examiner Name	S. Houtteman <i>Piley</i>
Attorney Docket Number	018547019420

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	269	SIM, et al., "Use of a cDNA Library for Studies on Evolution and Developmental Expression of the Chorion Multigene Families", <i>Cell</i> 18:1303-1316 (1979)	
	270	SOUTHERN et al., "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation using Experimental Models," <i>Genomics</i> , 13:1008-1017 (1992)	
	271	SOUTHERN, E.M., et al., "Arrays of Complementary Oligonucleotides for Analysing the Hybridization Behavior of Nucleic Acids," <i>Nucleic Acids Research</i> , Vol. 22, No. 8, 1994	
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	273	TITUS, et al., "Texas Red, A Hydrophilic, Red-Emitting Fluorophore for use with Fluorescein in Dual Parameter Flow Microfluorometric and Fluorescence Microscopic Studies," <i>Journal of Immunological Methods</i> , 50:193-204. (1982)	
	274	TKACHUK et al., "Detection of bcr-abl Fusion in Chronic Myelogenous Leukemia by in situ Hybridization," <i>Science</i> , 250:559-562 (1990)	
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	280	WIDACKI et al., "Biochemical Differences in Qa-2 Antigens Expressed By Qa-2+,6+ and Qa-2+,6- Strains. Evidence for Differential Expression of the Q7 and Q9 Genes," <i>Molecular Immunology</i> , 27:559-570 (1990)	
	281	WOOLLEY et al., "Ultra-high-speed DNA Fragment Separations Using Microfabricated Capillary Array Electrophoresis Chips," <i>PNAS</i> , 91:11348 (1994)	
	282	WU, et al., "Synthesis and Properties of Adenosine-5'-triphosphoryl-1-(5-sulfonic acid) naphthyl Ethylamide: A Fluorescent Nucleotide Substrate for DNA-Dependent RNA Polymerase from <i>Escherichia coli</i> " <i>Arch Biochem Biophys</i> , 246:564-71 (1989)	
	283	WU et al, Direct Analysis of Single Nucleotide Variation in Human DNA and RNA Using <i>In Situ</i> Dot Hybridization, <i>DNA</i> 8:135-142 (1989)	
	284	YARBROUGH, et al., "Synthesis and Properties of Fluorescent Nucleotide Substrates for DNA-dependent RNA Polymerases," <i>J. Biol. Chem.</i> 254:12069-73 (1979)	
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				Filing Date	Herewith
				First Named Inventor	Lockhart, David J.
				Group Art Unit	1656
				Examiner Name	<del>S. Houtteman</del> <i>Lee</i>
				Attorney Docket Number	018547019420
Sheet	13	of	13		

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	286	ZHAO et al., "High-Density cDNA Filter Analysis: A Novel Approach for Large Scale, Quantitative Analysis of Gene Expression," <i>Gene</i> , 156:207-213 (1995)		
	287	"Preparation of fluorescent-labeled DNA and its use as a probe in molecular hybridization," <i>Bioorg Khim</i> , 12:1508-13		

Examiner Signature	<i>[Signature]</i>	Date Considered	9/25/02
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